RK Product overview
Components and system solutions for automation technology
... a subsidiary of the globally-active Phoenix Mecano AG, and a full-service provider offering a wide range of linear components, profile assembly technology, connecting and modular technology, which is unique in the market. Decades of experience and our application expertise in various industry sectors means that we are a competent partner. We are focussed on your needs, from the initial contact to delivery. Individual advice and rapid delivery are not mutually exclusive, but rather both result from our determined focus on customer needs.

This guide provides an overview of the full range offered by RK Rose+Krieger. We look forward to working successfully with you.
We offer

✓ A broad, integrated product range
✓ 40 years of application experience in a wide range of fields
✓ Competent advice on your project
✓ Creative ideas for your individual solutions
✓ Quality, because we keep our promises
Our products

CONNECTING TECHNOLOGY

✓ Reliable connections between round and square tubes
✓ Connecting elements made of aluminium, steel, stainless steel and plastic
✓ Sizes from 8 mm to 80 mm

PROFILE TECHNOLOGY

✓ The proven BLOCAN® aluminium assembly system with profiles of
✓ 20 mm to 320 mm for diverse applications
✓ Connection technology with a unmatched combination of flexibility and reliability
LINEAR TECHNOLOGY

- Manual adjustment units
- Electrical cylinders
- Lifting columns
- Linear actuators
- We move up 3 tons over 12 metres precise, dynamic and reliable

MODULAR TECHNOLOGY

- We develop, manufacture and install for you
- Machine frames
- Workplaces
- Protective enclosures
- Multidimensional linear actuator modules
- Complete drive solutions
Clamp and release

Connecting precision round and square tubes reliably and stable whilst also making releasing easy appears to be a difficult task. The RK connecting technology, which has been proven over years of use, meets this requirement in a simple and almost perfect fashion.

Our versatile connection elements offer you the chance to implement creative and flexible solutions, because you can rely on our product. We are sure to have the right part for you, and if not we will develop one especially.
Stable, releasable and reusable connections

For round/square tubes from 8 mm to 80 mm

No machining or welding required

Parts made of aluminium, stainless steel and plastic for versatile applications

short delivery times, often of the shelf

Reliable due to

- Stable, releasable and reusable connections
- For round/square tubes from 8 mm to 80 mm
- No machining or welding required
- Parts made of aluminium, stainless steel and plastic for versatile applications
- short delivery times, often of the shelf

Application: labelling with RK connecting parts
**Light Clamps** –
Light load range

- Easy
- Good value
- Variable

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**Solid Clamps** –
Medium to heavy load range

- Reliable
- Solid
- Price/Performance optimised
- Great variety

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**Robust Clamps** –
Shock-proof load range

- Extremely strong
- Vibration proof
- Impact and shock load
- Corrosion resistant
Monitor Mounting/
Support arms system

- Universal or VESA connection
- Rotary or swivel function
- Monitor holder/support arm suitable for combination
- Excellent value for money

ITAS –
Industrial stairs and
working platforms

- Simple plug-in principle
- No machining, just assembling
- Straight transitions
- Optically attractive aluminium design
Mix and match

What matters is not only the profile, it is also the connection between the profiles. Years of application experience have resulted in an industrial aluminium profile system which can meet almost any requirement. Unlimited creativity combined with the highest levels of flexibility and proven reliability offers you multiple possible solutions to your requirements.

Benefit from all the advantages, especially connection without machining being required. The success of a system is the sum of its parts, based on strong individual parts.
Use the system to gain savings

- Combine, assemble, modify
- Highest levels of variability, without requiring machining
- Reliable thanks to connection technology which has been proven over years („Permanently stable“)
- Wide range of standard profiles from 20 mm to 320 mm, often available of the shelf
- Available as standard parts or cut to length (labelled, ready for installation)

Application: transportation and handling using BLOCAN® frames
**Structural Profiles** – Stable versatile structures

- Fixing slots on all sides
- Unlimited applications
- Minimized design effort
- Cost optimisation

**Functional Profiles** – Additional visual and functional benefit

- Attractive design
- Many additional functions
- Flexible

**Heavy Duty Profiles** – Heavy duty with highest stability

- High dynamic
- Large structures
- Easy transportable
Protection and partitioning system

- Sturdy protection system in aluminium design
- Minimum of designing efforts thanks to standard modules
- Assembly with no need for machining
- Extensive accessory programme
- Conform to the new European Machinery Directive 2006/42/EC and EN ISO 14120:2015 (D)

Click & Safe quick, easy and reliable connections

Profile connection technology
Minimum effort, low preparation/installation costs

- Machining of profiles is not necessary
  – no additional costs, no shavings
- Supplementary moving,
  – displacement of mounting position is possible
  – adjustable during assembly
- Minimum preparation effort
  – order and install
Moving and positioning

Guiding, adjustment, positioning or uniform motion, the requirements for linear motion operations are as numerous as the solutions. We offer you a wide spectrum of linear motion components, starting with an occasional manual movement, as well as frequent operation, through to continuous high dynamic positioning.

We will be pleased to advise you and help you select the best solution for your application. If this is not enough, we will develop a new optimal solution with you.

Reliable positioning saves much trial and error.
Performance = Power x Speed

- From 1 kg to 3 tons
- Up to 10 m/s and 50 m/s²
- From 100 mm to 12 m
- Easy integration of all current servomotors
- Highly reliable in constant use under various environmental conditions
**Move-Tec**
Width, length and height adjustment

- Manual or electric drive
- Occasional to multiple adjustments daily
- Low duty cycle
- Low speed
- Medium to high stability

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**Place-Tec**
Loading and unloading, palletising, pick & place

- High repeatability
- Short cycle times
- High cycle rates
- 3 shift operation
- High reliability

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**Control-Tec**
Numerically controlled positioning applications

- High positioning accuracy
- Uniform motion
- High drive stiffness
- 3 shift operation
- IP 40 protection class
Lifting columns
Height adjustment made easy

• Workplace ergonomics
• Industrial automation
• Medical technology
• Media technology

Electric cylinder
The alternative to pneumatic/hydraulic cylinders

• Fully integrated technology / maintenance-free
• Self-locking, even under max. load
• Can be installed in any position
• Various stroke lengths and speeds
Advise and optimise

Automation is as versatile as people are. Each task requires its own solution. Of course you can reinvent the wheel, a ball bearing, a motor or a linear actuator module if you have the time and the necessary expertise.

But you could also concentrate on the task in hand and work together with the right competent partner. We offer you our experience and expertise, so that together we can achieve success.
Motivated men make modules
✓ Advice, design, assembly and installation by a full-service provider
✓ Linear movement tasks
✓ Machine frames, workplaces and safety guards made of aluminium profiles
✓ Releasable connecting solutions made of aluminium, steel, stainless steel and plastic
✓ Customer-specific automation modules
**MODULAR TECHNOLOGY**

**Application examples**

**Workstation systems** – Ergonomics reduce stress and absences
- RK Easywork standard workbenches
- Adaptation based on LEAN considerations
- Suitable for modular upgrade

**LEAN solutions** – Innovative process structuring – Efficient sequences
- One piece flow work stations
- Material/feed carriage
- Best-point positioning
- Consultancy, conceptualisation, implementation

**Customised system solutions** – everything from a single source
- Multiple axis and handling systems
- Machine housings
- Workstation systems
- Frames and equipment
- Pedestals and stair systems
- And much more
You decide…

If you know what you want and have the time, select what you need from our standard range.

Variations, modified standard parts

You benefit from our experience and allow our experts to recommend the optimal modified product for your needs.

Catalogue items

If you know what you want and have the time, select what you need from our standard range.
...how much we can do for you

Customer-specific developments
If you want something no one has had before, we will be happy to develop something new for you.

Modules and systems
You need your skills and time for other tasks and choose a partner you can rely on.

So that you achieve the maximum „profit“.